Index of Claims

| Appl | lic | atio | n/C | ont | rol | No. |
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10/797,215

Examiner

Melba Bumgarner

Applicant(s)/Patent under Reexamination

PHAN ET AL.

Art Unit

3732

| <b>√</b> | Rejected |
|----------|----------|
| _        | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | im       | г         |          |              | _  | Dat  |  |               |          |  | 1 | Cl          | aim      | <u> </u> |   |  | _  | Date   |  |  | _ |
|----------|----------|-----------|----------|--------------|--|--|--|---------------|----------|--|---|-------------|----------|----------|---|--|--|--|--|--|---|
|          |          | Ι.        | т        | _            |  | Dai  | <u> </u>   | $\overline{}$ | _        | Г  |   | _ Cla       | 11111    | Н        |   | _  | <del>- '</del>                                   | Jan  | =  | г  | Т |
| Final    | Original | 30.02%    |          |              |  |  |  |               |          |  |   | Final       | Original |          |   |  |  |  |  |  |   |
|          | 1        | ÷         |          |              |  |  | Г  | Π             |          |  | 1 |             | 51       |          |   |  |  |  |  |  | Γ |
|          | 2        | i         |          |              |  |  | Г  |               |          |  |   |             | 52       |          |   |  |  |  |  |  | Γ |
|          | 3        |           |          |              |  |  |  |               |          |  |   |             | 53       |          |   |  |  |  |  |  | Γ |
|          | .4       |           |          |              |  |  |  | L             |          |  |   |             | 54       |          |   |  |  |  |  |  | I |
|          | 5        |           |          | <u> </u>     |  |  |  | L             |          |  |   |             | 55       |          |   |  |  |  |  |  | L |
|          | 6        |           |          |              |  |  |  |               |          |  |   |             | 56       |          |   |  |  |  |  |  | L |
|          | 7        | Ц         |          |              | <u> </u>   |  |  |               | <u> </u> |  |   |             | 57       |          |   |  |  | <u> </u>   | <u> </u>   |  | L |
|          | 8        | Ц         |          |              |  | L.   | _  |               | <u> </u> |  |   |             | 58       |          |   |  |  |  | <u> </u>   |  | L |
|          | 9        | Ц         | 1        | <u> </u>     | ļ  | _  | <u> </u>   | L             | _        | L  |   |             | 59       |          |   |  | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>   | L |
|          | 10       | Ц         | ↓_       | L            | <u> </u>   | L  | _  | L.            | _        |  |   |             | 60       |          |   |  | _  | _  | _  |  | Ļ |
|          | 11       | Ц         | <u> </u> | <u> </u>     | ļ  |  | ļ  | L             | <u> </u> |  |   |             | 61       |          |   |  | _  | _  | _  | _  | Ļ |
|          | 12       |           | ↓_       | <u> </u>     | _  | _  | <u> </u>   | <u> </u>      |          | _  |   |             | 62       | Ш        |   |  |  | _  | _  | _  | L |
|          | 13       |           | ╀-       | 1_           | ┡  | <u> </u>   | <u> </u>   | ├_            | ┖        |  |   |             | 63       | _        |   | L  | _  | <u> </u>   |  | _  | Ļ |
| $\vdash$ | 14       |           | ╀        | _            | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>      | <u> </u> |  |   |             | 64       |          | _ |  |  | ļ  | <u> </u>   | _  | Ļ |
|          | 15       | Н         | ╄-       | <u> </u>     | ┡  | _  |  |               | _        | _  |   |             | 65       |          |   | _  | <u> </u>   | <u> </u>   | _  | <u> </u>   | Ļ |
| $\vdash$ | 16       | Н         | ╄        | <del> </del> | ┡  | <u> </u>   | <u> </u>   | <b>├</b>      | <u> </u> |  | ' |             | 66       | -        |   | <u> </u>   | Ļ |
| $\vdash$ | 17       | H         | ╄-       | ↓_           | ╙  | _  | ┞  | <u> </u>      | <u> </u> | <u> </u>   |   |             | 67       | L        |   | <u> </u>   | L.   | _  | _  | <u> </u>   | L |
|          | 18       | Н         | ↓_       | ļ            | ┞  | <u> </u>   | <u> </u>   | <u> </u>      | _        | ļ  | ! |             | 68       | _        |   | _  | _  | _  | _  | _  | Ļ |
|          | 19       | Н         | ļ        | <u> </u>     | <b>├</b>   | <u> </u>   | <u> </u>   | <u> </u>      | _        | <u> </u>   |   |             | 69       | Щ        |   | _  | <u> </u>   | <u> </u>   | <u> </u>   | ⊢  | Ļ |
| $\vdash$ | 20       | Н         | ╀        | ├            | ├-   | <u> </u>   | _  | <u> </u>      | ļ        | _  |   |             | 70       | <u> </u> |   | _  | _  | <u> </u>   | <u> </u>   | <u> </u>   | ╀ |
|          | 21       | Н         | ╄        | ļ.,          | ┞-   | <u> </u>   | <u> </u>   | <u> </u>      | <u> </u> | <u> </u>   |   |             | 71       | Ш        |   |  | _  | <u> </u>   | ┡  | ļ.—  | Ł |
| <u> </u> | 22       | Н         | ╄        | ļ            | ├_   | <del> </del> _                                   | <u> </u>   | <u> </u>      | -        |  |   |             | 72       | Щ        |   | _  |  | _  | _  | _  | Ł |
|          | 23       | 1         | ╄-       | <u> </u>     | ┞  | <u> </u>   | _  | <b>!</b>      | <u> </u> | <u> </u>   |   |             | 73       |          |   |  |  | _  | _  |  | Ļ |
|          | 24       | H         | ╄        | 1-           | _  | <u>                                      </u>    | _  | <u> </u>      | <u> </u> | <u> </u>   |   |             | 74       | Щ        |   | _  | <u> </u>   | <u> </u>   | <u> </u>   | ⊢  | Ļ |
|          | 25       | H         | ╄        | ļ            | ⊢  | <u> </u>   | <u> </u>   | ├             | _        | ⊢  |   |             | 75       | Ш        |   |  | $\vdash$   | $\vdash$   | _  | _  | ╀ |
|          | 26       | H         | ╄        | <del> </del> | ⊢  | ⊢  | -  | ├             | ⊢        | <u> </u>   |   |             | 76       | $\vdash$ |   | <u> </u>   | -  | ⊢  | $\vdash$   | -  | ╀ |
|          | 27       | $\forall$ | ,        | ⊬            | ├  | ├  | <del> </del>                                     | <u> </u>      | ⊢        | <u> </u>   | ł |             | 77       | Н        |   | _  | $\vdash$   | $\vdash$   | $\vdash$   | ⊢  | ╀ |
| $\vdash$ | 28       | V         | ╀╌       | -            | ├  | ⊢  | ⊢  | ├             | H        | -  |   |             | 78       | H        |   | -  | ┝  | ⊢  | -  | -  | ╀ |
|          | 29<br>30 | H         | -        | $\vdash$     | ╁╾   | ├  | -  | <del> </del>  | ├        | -  |   |             | 79<br>80 | H        |   | <u> </u>   | $\vdash$   | ⊢  | ⊢  | $\vdash$   | ╀ |
| -        | 31       | ┝         | ╁        | +            | ┼  | ┢  | -  | <del> </del>  |          |  |   |             | 81       | -        |   |  | -  | $\vdash$   | $\vdash$   | $\vdash$   | ╁ |
| $\vdash$ | 32       | ├         | ╁        |              | ⊢  | ⊢  | ⊢  | ⊢             | -        | -  |   |             | 82       | $\vdash$ | _ | ⊢  | ⊢  | ├  | -  |  | ╁ |
| $\vdash$ | 33       | ⊢         | ╁        | -            | ├  | ⊢  | ⊢  | ⊢             | $\vdash$ | -  |   |             | 83       | Н        |   | H  | $\vdash$   | ├  | $\vdash$   | ├  | H |
| -        | 34       | ┝         | +        | $\vdash$     | ╁  | ⊢  | ┢  | ┢             | ⊢        | <del> </del>                                     | 1 |             | 84       | $\vdash$ |   | -  | -  | ┢  | $\vdash$   | ┢  | H |
| $\vdash$ | 35       | $\vdash$  | ╁╌       | ╁            | ╁  | ├  | ⊢  | ╁             | $\vdash$ | $\vdash$   |   |             | 85       | Н        |   | $\vdash$   | $\vdash$   | $\vdash$   | ├  | -  | t |
| -        | 36       | ⊢         | ╁        | ╁            | ┢  | ╌  | ⊢  | ╁             | H        | -  |   |             | 86       | H        |   | ┢  | -  | ┢  | ⊢  | ┢  | H |
|          | 37       | Н         | +        | H            | $\vdash$   | ╁╌   |  | $\vdash$      | H        | ┢  |   |             | 87       | Н        |   | -  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | t |
| $\vdash$ | 38       | $\vdash$  | +        | $\vdash$     | $\vdash$   | Η-   | <del>                                     </del> | $\vdash$      | ╁        | ╁  | ł | $\vdash$    | 88       | Н        | _ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | t |
| $\vdash$ | 39       | $\vdash$  | +        | +            | $\vdash$   | <del>                                     </del> | <del>                                     </del> | +-            | 1        | $\vdash$   | l | $\vdash$    | 89       | H        | _ | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$   | t |
|          | 40       | $\vdash$  | t        | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | t             | H        | $\vdash$   | l | <del></del> | 90       | $\vdash$ | _ | $\vdash$   | Н  | t  | <del> </del>                                     | <del>                                     </del> | t |
| $\vdash$ | 41       | ┪         | †-       | $\vdash$     | <del>                                     </del> | Н  | Ι-   | T             | $\vdash$ | $t^-$  | i | $\vdash$    | 91       |          | _ |  | $\vdash$   | $\vdash$   | <del>                                     </del> | <del>                                     </del> | t |
| $\vdash$ | 42       | H         | t        | †            | <del>                                     </del> | <del>                                     </del> | $\vdash$   | 1             | $\vdash$ | <del>                                     </del> | i | $\vdash$    | 92       | Н        |   | ┢  | <del>                                     </del> | <del>                                     </del> | T  | <del>                                     </del> | t |
|          | 43       | T         | T        | 1            |  | ╁  | $\vdash$   | T             |          | $\vdash$   | i | <del></del> | 93       | Н        |   | $\vdash$   | T  | Т  | Т  | $\vdash$   | t |
| М        | 44       | Г         | $\vdash$ | 1            | T  | T  | T  | T             | $I^-$    | ļ  | 1 | Ι .         | 94       | П        | - | <del>                                     </del> | T  | Т  | T  | Г  | t |
|          | 45       | Г         | 一        | Т            | Т  | Т  | T  | T             | 1        | T  | 1 |             | 95       |          | - |  | Т  | <del>                                     </del> | Т  | ऻ  | t |
| $\Box$   | 46       | -         | 1        | 1            | <b>†</b>   | Г  | T  | T             | T-       |  | l |             | 96       |          |   |  | <del>                                     </del> | Г  | Г  | T  | t |
| $\Box$   | 47       |           | T        |              |  |  | Т  | T             | 1        | Γ  | 1 |             | 97       | Г        |   | <u> </u>   |  |  |  |  | T |
| $\Box$   | 48       |           | 1        | Τ            | Γ  | Г  | Π  | Π             | Γ        |  | l |             | 98       |          |   | Γ  | Г  | Г  | Г  | П  | T |
| $\Box$   | 49       | Г         | T        |              | Г  |  | Π  | Π             |          |  | 1 |             | 99       | П        |   | Г  | Г  | Г  | Γ  |  | T |
| $\Box$   | 50       | Γ         |          | $\top$       | Ι.   |  | Г  | Π             | T        | Г  | 1 |             | 100      |          |   |  | Г  |  | Г  |  | T |

| Cla  | aim      |              |          |              |          | Date     | •        |              |  |          |
|--|----------|--------------|----------|--------------|----------|----------|----------|--------------|--|----------|
|  |          |              |          |              |          |          |          |              |  |          |
| Final  | Original |              |          |              |          |          |          |              |  |          |
|  | 51       |              |          |              |          |          |          |              |  |          |
|  | 52       |              | 1        |              |          | ĺ        |          | İ            |  |          |
|  | 52<br>53 |              |          |              |          |          |          |              |  |          |
|  | 54       |              |          |              |          |          |          |              |  |          |
|  | 54<br>55 |              |          | _            |          |          |          |              |  | _        |
|  | 56       | _            |          |              | _        | <u> </u> |          |              |  | _        |
|  | 57       |              |          |              |          |          |          |              |  |          |
|  | 58       |              | -        |              |          |          |          |              |  | $\vdash$ |
|  | 59       | -            | _        |              | $\vdash$ |          | -        |              |  | $\vdash$ |
| <del>                                     </del> | 60       |              | $\vdash$ |              | $\vdash$ |          |          |              | -  | _        |
| -  | 61       | Н            | $\vdash$ |              |          |          |          |              |  | -        |
| -  | 62       | -            |          |              |          |          |          |              |  | -        |
| -  | 63       | Н            | $\vdash$ | $\vdash$     | H        | Н        | Н        | Н            | $\vdash$   |          |
|  | 64       |              | $\vdash$ |              | -        | $\vdash$ | -        | $\vdash$     | H  | $\vdash$ |
|  | 65       | Н            | $\vdash$ |              |          | -        |          | <u> </u>     | -  | -        |
|  | 66       | -            | -        | -            | _        |          |          | _            | -  |          |
| }  | 66       |              | _        | $\vdash$     |          |          |          |              | $\vdash$   |          |
|  | 67       |              |          |              | -        |          |          |              | H  |          |
|  | 68       |              |          |              | $\vdash$ |          |          |              | <u> </u>   | _        |
|  | 69       | _            |          |              |          | _        | _        |              | _  | _        |
| <b> </b>   | 70       |              | _        | _            | _        |          |          |              | _  | _        |
|  | 71<br>72 | _            |          |              | _        |          | _        |              | _  | _        |
| -  | 72       | -            |          | _            |          |          |          |              | _  |          |
|  | 73       |              |          |              |          |          |          |              | <u> </u>   |          |
|  | 74<br>75 | Н            | _        | _            |          |          | _        |              | <u> </u>   | _        |
| -  | 75       | $\vdash$     |          |              |          |          | _        |              | $\vdash$   | _        |
| 1  | 76<br>77 | -            |          |              |          |          |          |              | $\vdash$   |          |
|  | 78       | -            | $\vdash$ |              |          |          | _        |              | $\vdash$   | -        |
| -  | 70       |              |          | H            |          |          | -        |              | <u> </u>   |          |
| -  | 79<br>80 | -            |          | -            |          |          | -        |              | <u> </u>   | -        |
|  |          |              |          |              | -        |          | _        |              | $\vdash$   | -        |
| -  | 81       | Н            | _        |              | $\vdash$ | -        |          |              | $\vdash$   | _        |
| -  | 82       | Н            | Н        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | <del> </del> | <del> </del>                                     | $\vdash$ |
| $\vdash$   | 83       | Н            | -        | <u> </u>     | $\vdash$ | -        | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$ |
| -  | 84       | Н            | Н        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | ├            | ├—   | $\vdash$ |
| -  | 85       | Н            |          | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | H            | <u> </u>   |          |
| -  | 86       | $\vdash$     |          | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | -            | <u> </u>   | ├        |
| -  | 87       | Н            | H        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | <u> </u>   | ⊢        |
| $\vdash$   | 88<br>89 | $\vdash$     |          | $\vdash$     | $\vdash$ | $\vdash$ | -        | $\vdash$     | <u> </u>   | $\vdash$ |
|  | 90       | $\vdash$     |          | $\vdash$     | $\vdash$ | -        |          |              |  | $\vdash$ |
| -  | 91       |              |          | $\vdash$     | $\vdash$ | <u> </u> |          |              | _  | -        |
| -  | 92       | H            |          | -            | -        |          |          |              | _  | ┝        |
|  | 93       | H            |          | $\vdash$     | $\vdash$ | $\vdash$ | Н        |              | $\vdash$   | ┢        |
| -  | 94       | Н            |          | <del> </del> | Н        | Н        | Н        | $\vdash$     | <del> </del>                                     | $\vdash$ |
|  | 95       |              | $\vdash$ | <del> </del> | $\vdash$ | -        | Н        |              | $\vdash$   | $\vdash$ |
| <b></b>  | 96       |              | Н        | $\vdash$     | -        | Н        | -        |              | <del>                                     </del> | $\vdash$ |
|  | 97       |              | $\vdash$ | $\vdash$     | $\vdash$ |          |          |              | $\vdash$   | $\vdash$ |
|  | 98       |              | Н        | Т            | $\vdash$ | Н        |          |              | <del>                                     </del> | $\vdash$ |
| <b> </b>   | 99       |              | Н        | l            | Т        |          |          |              | $\vdash$   | _        |
|  | 100      | <del> </del> | Η-       |              | Н        | $\vdash$ |          | $\vdash$     | $\vdash$   | ┢╌       |

| Cli   | aim                                    | Date           |          |          |          |                   |              |          |              |                 |  |  |  |
|-------|--|----------------|----------|----------|----------|-------------------|--------------|----------|--------------|-----------------|--|--|--|
| Final | Original                               |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 101                                    |                |          |          |          |                   |              | $\vdash$ | Н            | _               |  |  |  |
|       | 101<br>102                             |                |          |          |          | -                 |              | -        |              |                 |  |  |  |
|       | 103                                    |                |          |          |          |                   | _            |          |              |                 |  |  |  |
|       | 103<br>104                             |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 105                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 105<br>106                             |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 107                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 108<br>109                             |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 109                                    |                |          |          |          | Ш                 |              | Ш        |              | Щ               |  |  |  |
|       | 110                                    |                |          |          |          |                   |              |          |              | $\Box$          |  |  |  |
|       | 111                                    |                |          |          |          | <u> </u>          |              |          |              | Щ               |  |  |  |
|       | 111<br>112<br>113                      | H              |          | <u> </u> |          | H                 | H            | H        |              | $\dashv$        |  |  |  |
|       | 113                                    | $\vdash$       | <u> </u> | $\vdash$ |          | $\vdash$          | H            | $\vdash$ | $\vdash$     | Н               |  |  |  |
|       | 114<br>115                             | $\vdash$       | $\vdash$ | $\vdash$ | -        | $\vdash$          | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash \vdash$ |  |  |  |
|       | 116                                    | $\vdash$       | -        | $\vdash$ |          | Н                 | $\vdash$     |          |              | $\vdash$        |  |  |  |
| -     | 116<br>117                             |                |          | $\vdash$ |          | Н                 |              |          |              | $\dashv$        |  |  |  |
|       | 118                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 119                                    |                |          |          |          | Н                 | Г            |          | _            | $\Box$          |  |  |  |
|       | 120                                    |                |          |          |          | П                 |              |          |              |                 |  |  |  |
|       | 121                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 122                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 122<br>123<br>124                      |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 124                                    |                |          |          |          |                   |              |          |              | Ш               |  |  |  |
|       | 125<br>126<br>127<br>128<br>129<br>130 |                |          | _        |          |                   | _            | _        |              |                 |  |  |  |
|       | 126                                    |                |          | <u> </u> |          |                   | $\vdash$     |          | _            |                 |  |  |  |
|       | 127                                    |                |          | $\vdash$ |          |                   | <u> </u>     |          |              |                 |  |  |  |
|       | 128                                    | _              |          | <u> </u> |          | -                 | <u> </u>     |          |              | Н               |  |  |  |
|       | 129                                    |                | -        | -        | -        |                   | H            |          |              | $\vdash$        |  |  |  |
|       | 131                                    | $\vdash$       | -        | $\vdash$ |          | $\vdash$          | ⊢            |          |              | $\vdash$        |  |  |  |
|       | 132                                    |                |          | -        |          | H                 | $\vdash$     |          |              | Н               |  |  |  |
|       | 133                                    | $\vdash$       | -        | _        | _        | $\vdash$          | $\vdash$     | H        |              |                 |  |  |  |
|       | 133<br>134                             | Г              | П        | $\vdash$ |          | Г                 | Т            | Г        | l            | П               |  |  |  |
|       | 135                                    | П              | П        |          | Г        | П                 | Г            | Π        | П            |                 |  |  |  |
|       | 136<br>137                             |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 137                                    |                |          |          |          |                   |              |          |              |                 |  |  |  |
|       | 138                                    | $\Box$         |          |          |          | oxdot             |              |          | $oxed{\Box}$ |                 |  |  |  |
|       | 139                                    |                |          | L        | _        | $ldsymbol{f eta}$ | <u> </u>     | <u> </u> | <u> </u>     | Щ               |  |  |  |
|       | 140                                    | _              |          | ļ        | _        | $ldsymbol{f eta}$ | oxdot        | <u> </u> | <u> </u>     | Ш               |  |  |  |
|       | 141                                    | _              | <u> </u> | _        | $\vdash$ | $\vdash$          | <u> </u>     | <u> </u> | <u> </u>     | Щ               |  |  |  |
|       | 142                                    |                | <u> </u> | <u> </u> | $\vdash$ | $\vdash$          | <del> </del> | <u> </u> |              |                 |  |  |  |
|       | 143                                    |                |          |          | $\vdash$ | $\vdash$          | ⊢            | ⊢        | $\vdash$     | H               |  |  |  |
|       | 144<br>145                             | <del>  -</del> | $\vdash$ | <u> </u> | $\vdash$ | $\vdash$          | $\vdash$     | $\vdash$ | -            | H               |  |  |  |
|       | 145                                    | H              | $\vdash$ | -        | $\vdash$ | $\vdash$          | $\vdash$     | ┝        | $\vdash$     | $\vdash$        |  |  |  |
|       | 147                                    | $\vdash$       | $\vdash$ | H        | $\vdash$ | $\vdash$          | $\vdash$     | $\vdash$ | H            | Н               |  |  |  |
|       | 148                                    |                | $\vdash$ |          | $\vdash$ | Н                 | $\vdash$     | $\vdash$ | Н            | Н               |  |  |  |
|       | 149                                    |                | П        | _        | Т        | Г                 | Г            | Г        | H            | H               |  |  |  |
|       | 150                                    | $\vdash$       |          | Г        |          |                   |              | Г        | Г            | П               |  |  |  |
|       |  |                | _        |          |          |                   |              |          | _            |                 |  |  |  |